We claim:

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- 1. A method for connecting a plastic pipe to another plastic part, wherein an outer layer of the plastic pipe and an outer layer of the other plastic part are largely opaque to laser light of a certain wavelength, comprising the steps of:
 - a) sheathing both the plastic pipe and the other plastic part ends thereof by an additional adaptor made of a plastic transmissive to laser light, and
 - b) fastening the adaptor to at least one of the plastic pipe and the other plastic part by laser-beam welding.
- 2. The method of claim 1, wherein the plastic pipe is a multi-layer pipe comprising a barrier layer.
- 3. The method of claim 1, wherein the plastic pipe is a multi-layer pipe comprising an antistatic inner layer.
- 4. The method of claim 1, wherein the plastic pipe is a multi-layer pipe comprising a barrier layer and an antistatic inner layer.
 - 5. The method of claim 1, wherein the other plastic part is a pipe.
- 6. The method of claim 1, wherein the other plastic part is selected from the group consisting of a quick connector, a branch, a valve and a cover for the pipe.
 - 7. The method of claim 1, wherein the adaptor is a sleeve.
- 30 8. The method of claim 1, further comprising welding the adaptor onto the pipe and onto the other plastic part by at least one peripheral weld in each case.
 - 9. A composite part produced by the method of claim 1.
 - 10. The composite part of claim 9, wherein the composite part is a motor-vehicle pipeline.

- 11. The composite part of claim 9, wherein the composite part is a gas transport line.
- 12. The composite part of claim 9, wherein the composite part is a component of a medical device.
 - 13. The composite part of claim 10, wherein the composite part is a pipeline selected from the group consisting of a fuel line, a coolant line, a brake fluid line, a hydraulic fluid line, and a line of a windshield washing system.
 - 14. A method for connecting a plastic pipe to another plastic part, wherein an outer layer of the plastic pipe and an outer layer of the other plastic part are largely opaque to laser light of a certain wavelength, comprising the steps of:
 - (a) molding an additional adaptor of a material transmissive to laser light together with the other plastic part by a two-component injection-molding process,
 - (b) inserting the pipe into the adaptor, and

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- (c) fastening the pipe to the adaptor by means of at least one weld.
- 15. The method of claim 14, wherein the at least one weld is a laser weld.
- 16. A composite part produced by the method of claim 14.
 - 17. The composite part of claim 16, wherein the composite part is a motor-vehicle pipeline.
- 18. The composite part of claim 16, wherein the composite part is a gas transport line.
 - 19. The composite part of claim 16, wherein the composite part is a component of a medical device.
 - 20. The composite part of claim 17, wherein the composite part is a pipeline selected from the group consisting of a fuel line, a coolant line, a brake fluid line, a hydraulic fluid line, and a line of a windshield washing system.

- 21. A method for connecting a plastic pipe to another plastic part, wherein an outer layer of the plastic pipe and an outer layer of the other plastic part are largely opaque to laser light of a certain wavelength, comprising the steps of:
 - (a) molding an additional adaptor of a plastic transmissive to laser light onto the other plastic part,
 - (b) inserting the pipe into the adaptor, and

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- (c) fastening the pipe to the adaptor by means of at least one weld.
- 22. The method of claim 21, wherein the at least one weld is a laser weld.
- 23. A composite part produced by the method of claim 21.
- 15 24. The composite part of claim 23, wherein the composite part is a motor-vehicle pipeline.
 - 25. The composite part of claim 23, wherein the composite part is a gas transport line.
 - 26. The composite part of claim 23, wherein the composite part is a component of a medical device.
- 27. The composite part of claim 24, wherein the composite part is a pipeline selected from the group consisting of a fuel line, a coolant line, a brake fluid line, a hydraulic fluid line, and a line of a windshield washing system.
- 28. A method for connecting a plastic pipe to another plastic part, wherein an outer layer of the plastic pipe and an outer layer of the other plastic part are largely opaque to laser light of a certain wavelength, comprising the steps of:
 - (a) molding the other plastic part onto an adaptor of a plastic transmissive to laser light,
 - (b) inserting the pipe into the adaptor, and
 - (c) fastening the pipe to the adaptor by means of at least one weld.
 - 29. The method of claim 28 wherein the at least one weld is a laser weld.

- 30. A composite part produced by the method of claim 28.
- 31. The composite part of claim 30, wherein the composite part is a motor-vehicle pipeline.
- 32. The composite part of claim 30, wherein the composite part is a gas transport line.
- 33. The composite part of claim 30, wherein the composite part is a component of a medical device.
 - 34. The composite part of claim 31, wherein the composite part is a pipeline selected from the group consisting of a fuel line, a coolant line, a brake fluid line, a hydraulic fluid line, and a line of a windshield washing system.

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